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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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INTERNATIO	ONAL PRELIMINARY EXAMINAT	TION REPORT
Translation PA	(PCT Article 36 and Rule 70)	Statemational Preliminary
Applicant's or agent's file reference	FOR FURTHER ACTION Examination	(dowlmonth/year)
A31324M	International filing date (day/month/year) 05 June 2003 (05.06.03)	10 June 2002 (10.00.02)
PCT/JP03/07121 International Patent Classification (IPC) or A61K 31/167, 31/18, 31/381, 31/451, 31/451, 31/455, 31/47, 31/505	national classification and IPC 31/40, 31/404, 31/4164, 31/421, 31/422, 31 31/498, 31/5375, 31/609, 31/616, A61P 3	
Applicant DICTITY	TE OF MEDICINAL MOLECULAR I	DESIGN. INC.
пчотти	xamination report has been prepared by this Int	ternational Preliminary Examining Authority
This REPORT consists of a tot This report is also account amended and are the branched and Section 607 These annexes consist This report contains indication	mpathed by ANNEXES, i.e., sheets of the description of the Administrative instructions under the PC of a total of sheets.	Tiption, claims and/or drawings wild have been
I Basis of the II Priority III Non-establ IV Lack of un V Reasoned citations a VI Certain d	ishment of opinion with regard to novelty, invention of invention statement under Article 35(2) with regard to not and explanations supporting such statement ocuments cited	mive step and industrial applicability by overty, inventive step or industrial applicability;
VIII Certain	observations on the international application	
Date of submission of the demonstrate of June 2 Name and mailing address of	and 003 (05.06.03) the IPEA/IP Authori	2003 (13.11.2003) 13 November 2003 (13.11.2003) 1220 officer 13 none No.
Facsimile No.		



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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. Wi	ith rega	ard to th	ne elements of the international application:*	
∇			ational application as originally filed	
F] the	e descrip	ntion:	
\		ges	Description of the control of the co	, as originally filed
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L	th	e claims	S:	, as originally filed
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Г	T the	seguen	nce listing part of the description:	
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		the lang	guage of a translation furnished for the purposes of international search (under Rule 23.1(b) guage of publication of the international application (under Rule 48.3(b)). guage of the translation furnished for the purposes of international preliminary examinat	ion (under Rule 55.2 and/
3.	With	regard	to any nucleotide and/or amino acid sequence disclosed in the international approximation was carried out on the basis of the sequence listing:	lication, the international
	, , , , , , , , , , , , , , , , , , ,	contain	ned in the international application in written form.	The second secon
	H	filed to	ogether with the international application in compiler readable form.	
	-	firmich	ned subsequently to this Authority in written feat.	The state of the s
1	H		and subsequently to this Authority in computer readable form.	
		The st	tatement that the subsequently furnished written sequence listing does not go beyone the sequence of filed has been furnished.	
1		The st	tatement that the information recorded in computer readable form is identical to the	ritten sequence listing has
1	ш	been fi	furnished.	
1				
4.		The an	mendments have resulted in the cancellation of:	
			the description, pages	
4			the claims, Nos.	
1.			the drawings, sheets/fig	
5.	-	beyond	eport has been established as if (some of) the amendments had not been made since they d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	
4.	Repla in th	aceme nt is repoi	t skeets which have been furnished to the receiving Office in response to an invitation und it as to the property filed will are not annexed to this report since they do not contain	ler Article 14 are referred to n amendments (Rule H) 16
			ment sheet containing such amendments must be referred to under item 1 and annexed to it	



International application No.

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INT	ERNATIONAL PRO	CLIVIIIVANI C.	WHITTINITON IC		FC1/JF03/0/121	
I. Non-es	stablishment of opinion	n with regard to n	ovelty, inventive step	p and industrial applica	bility	
The au		aimed invention ar	ppears to be novel, t		step (to be non obvious)	, or to be
	the entire international	application.				
\boxtimes	claims Nos.	1- a part of 11				
because	÷:	•			egype – ett of og efter. Også	n in de Symbol.
	the said international a relate to the following	pplication, or the sa subject matter which	aid claims Nos h does not require an	international preliminary	examination (specify):	
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				•		·.
•		6	3			
⊠ Tl	he effective comp	onents of the	lrug composition	nts below) or said claims ecify): ns of the inventions e range, and a com	s of claims 1 throug plete search relating	gh 11 g to all
hase co	mnounds is diffic	cult to conduct	. On the other ha	and, only a tiny frac	ction of the effectiv	<i>r</i> e
omnon	ents of the drug c	compositions of	f the inventions	of claims 1 through	h 11 were supporte	d by the
pecific	ation, as defined l	by the PCT Ar	ticle 6, or disclo	sed in the specifica	mon, as defined by	tne PC1
Article. T	ے. herefore. claims 1	through 11 an	id the specificati	ion do not meet the	prescribed require	ments to
	A DESCRIPTION OF THE PERSON OF	Care 1	hamal agarah			
A	ccordingly, in the	previous inter	mational search	report, the search of	f prior art documents specifically descr	ibed
n the s	pecification with	respect to the i	nventions of cla	ims 1 to 11. For the	is reason, the	
nternat	ional preliminary	examination v	was conducted w	vithin this search ra	nge.	
			٠.			
\boxtimes	the claims, or said cla by the description tha	nims Nos. It no meaningful op	1-11 inion could be forme	a. d. ∙.	re so inadequately suppor	rted
\boxtimes	no international searc	sh report has been e	stablished for said cla	aims Nos. 1	a part of 11	•
2. A mea	mingful international p	reliminary examinath the standard pro	ation cannot be carri	ed out due to the failure of the Administrative in	of the nucleotide and/or structions:	amino acid
	the written form has		•		•	* * * *
	the computer readabl	e form has not beer	n furnished or does no	ot comply win the standa	rd.	



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V. Reasoned statement under Articl citations and explanations suppo	e 35(2) with rting such s	regard to novelty, inventive step or industrial applicability; statement	-
1. Statement			
Novelty (N)	Claims	8, 9	YES
	Claims	1-7, 10, 11	NO
Inventive step (IS)	Claims .		YES
	Claims	1.11	NO
Industrial applicability (IA)	Claims	1-11	YES
·	Claims		NO
		•	

2. Citations and explanations

Document 1: WO, 99/65449, A2 (Smithkline Beecham Corporation), 23 December, 1999. Document 2: WO, 99/55663, A1 (Vertex Pharmaceuticals Incorporated), 04 November, 1999.

Document 3: WO, 01/98290, A2 (Pharmacia & Upjohn S.P.A.), 27 December, 2001.

<Based on document 1>

The inventions of claims 1-5, 7 do not appear to possess novelty or involve artinventive step based on document 1 cited in the ISR.

Document 1 describes that the compound (HO)(R_A)Ph-CONH-Ph(R_B) represented by Formula 4 demonstrates an efficacious effect against cancer.

Changing some of the substitution groups in the compound of Formula I within a range of analogs with the object of providing compounds that are similarly effective against cancer could have been easily arrived at by a person skilled in the art.

<Based on document 2>

The inventions of claims 1-4, 6, 7 do not appear to possess novelty or involve an inventive step based on document 2 cited in the ISR. Further, the inventions of claims 8 and 9 do not appear to involve an inventive step based on the same document 2.

Document 2 describes that the compound represented by the formula (hydroxynaphthalene ring)-CONH-(Ph substituted with CF₃ or the like) is effective as an antitumor agent.

Changing some of the substitution groups within a range of analogs with the object of providing compounds that are similarly effective as antitumor agents could have been easily arrived at by a person skilled in the art.

<Based on document 3>

The inventions of claims 1-6, 10, and 11 do not appear to possess novelty or involve an inventive step based on document 2 cited in the ISR.

Document 3 describes that the compound represented by the formula (HO)Ph-CONH-(substituted heteroaryl) is effective as an antitumor agent.

Changing some of the substitution groups within a range of analogs with the object of providing compounds that are similarly effective as antitumor agents could have been easily arrived at by a person skilled in the art.



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VI. Certain documents cited

1. Certain published documents (Rule 70.10)

Application No. Patent No.	Publication date (day/month/year)	<u>_</u>	Filing date (day/month/year)	_	Priority date (valid claim (day/month/year)	
WO 02/49632 A1	27.06.02		18.12.01		18.12.00	
(Institute of Medicinal Molecular Des ign Inc.)	·		Œ.		•	
[E, X]		•	·	• • •	•	
WO 02/076918 A1	03.10.02		27.03.02		27-03.01	
(Suntory Ltd.)	in de la companya de La companya de la co					4
[E, X]						

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)